

Amendments to the Sequence Listing:

The attached sequence listing on sheets 1/13 – 13/13 is amended at heading line <110> to correctly identify the applicants. The sequences are not amended.

Attachment: Replacement sheets 1/13 to 13/13

1/13

SEQUENCE LISTING

<110> Genesis Group Inc., Kenneth Kao, Catherine Popadiuk

<120> Pygopus in Diagnosis and Treatment of Cancer

<130> 50680-4

<150> US 60/463 309

<151> 2003-04-17

<150> US 60/496 012

<151> 2003-08-19

<160> 28

<170> PatentIn version 3.3

<210> 1

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ccaagggcgc ctccatcccc cgccgctgcc gctaaccgag gtccccact cc atg gcc 178
Met Ala
1

gcc tcg gcg ccg ccc cca ccg gac aag ctg gag gga ggt ggc ggc ccc 226
Ala Ser Ala Pro Pro Pro Pro Asp Lys Leu Glu Gly Gly Gly Gly Pro
5 10 15

gca ccg ccc cct gcg ccg ccc agc acc ggg agg aag cag ggc aag gcc 274
Ala Pro Pro Pro Ala Pro Pro Ser Thr Gly Arg Lys Gln Gly Lys Ala
20 25 30

ggt ctg caa atg aag agt cca gaa aag aag cga agg aag tca aat act 322
Gly Leu Gln Met Lys Ser Pro Glu Lys Lys Arg Arg Lys Ser Asn Thr
35 40 45 50

cag ggc cct gca tac tca cat ctg acg gag ttt gca cca ccc cca act 370
Gln Gly Pro Ala Tyr Ser His Leu Thr Glu Phe Ala Pro Pro Pro Thr
55 60 65

ccc atg gtg gat cac ctg gtt gca tcc aac cct ttt gaa gat gac ttc 418
Pro Met Val Asp His Leu Val Ala Ser Asn Pro Phe Glu Asp Asp Phe
70 75 80

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ccc cca ggc tac agc act gga ggt gga ggg ggc ccc cag cca ctc cgt Pro Pro Gly Tyr Ser Thr Gly Gly Gly Gly Gly Pro Gln Pro Leu Arg 115 120 125 130	562
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ccc ttt cct ggt ccg gac cct ggc ttt cct ggc cct ggt ggt gag gat Pro Phe Pro Gly Pro Asp Pro Gly Phe Pro Gly Pro Gly Gly Glu Asp 245 250 255	946
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ccc cca ggc ttg gtg tac cca tgt ggt gcc tgt cgg agt gag gtg aac      1186
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Asp Asp Gln Asp Ala Ile Leu Cys Glu Ala Ser Cys Gln Lys Trp Phe
      340                      345                      350

cac cgt gag tgc aca ggc atg act gag agc gcc tat ggg ctg ctg acc      1282
His Arg Glu Cys Thr Gly Met Thr Glu Ser Ala Tyr Gly Leu Leu Thr
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act gaa gct tct gcc gtc tgg gcc tgc gat ctc tgc ctc aag acc aag      1330
Thr Glu Ala Ser Ala Val Trp Ala Cys Asp Leu Cys Leu Lys Thr Lys
      375                      380                      385

gag atc cag tct gtc tac atc cgt gag ggc atg ggg cag ctg gtg gct      1378
Glu Ile Gln Ser Val Tyr Ile Arg Glu Gly Met Gly Gln Leu Val Ala
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Ala Asn Asp Gly
      405

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<213> homosapiens

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<220>

<223> hPygo-2

<400> 2

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Lys Ala Gly Leu Gln Met Lys Ser Pro Glu Lys Lys Arg Arg Lys Ser
          35          40          45

Asn Thr Gln Gly Pro Ala Tyr Ser His Leu Thr Glu Phe Ala Pro Pro
          50          55          60

Pro Thr Pro Met Val Asp His Leu Val Ala Ser Asn Pro Phe Glu Asp
65          70          75          80

Asp Phe Gly Ala Pro Lys Val Gly Val Ala Ala Pro Pro Phe Leu Gly
          85          90          95

Ser Pro Val Pro Phe Gly Gly Phe Arg Val Gln Gly Gly Met Ala Gly
          100          105          110

Gln Val Pro Pro Gly Tyr Ser Thr Gly Gly Gly Gly Gly Pro Gln Pro
          115          120          125

Leu Arg Arg Gln Pro Pro Pro Phe Pro Pro Asn Pro Met Gly Pro Ala
          130          135          140

Phe Asn Met Pro Pro Gln Gly Pro Gly Tyr Pro Pro Pro Gly Asn Met
145          150          155          160

Asn Phe Pro Ser Gln Pro Phe Asn Gln Pro Leu Gly Gln Asn Phe Ser
          165          170          175

Pro Pro Ser Gly Gln Met Met Pro Gly Pro Val Gly Gly Phe Gly Pro
          180          185          190

Met Ile Ser Pro Thr Met Gly Gln Pro Pro Arg Ala Glu Leu Gly Pro
          195          200          205

Pro Ser Leu Ser Gln Arg Phe Ala Gln Pro Gly Ala Pro Phe Gly Pro
          210          215          220

Ser Pro Leu Gln Arg Pro Gly Gln Gly Leu Pro Ser Leu Pro Pro Asn
225          230          235          240

Thr Ser Pro Phe Pro Gly Pro Asp Pro Gly Phe Pro Gly Pro Gly Gly
          245          250          255

Glu Asp Gly Gly Lys Pro Leu Asn Pro Pro Ala Ser Thr Ala Phe Pro
          260          265          270

Gln Glu Pro His Ser Gly Ser Pro Ala Ala Ala Val Asn Gly Asn Gln
          275          280          285

Pro Ser Phe Pro Pro Asn Ser Ser Gly Arg Gly Gly Gly Thr Pro Asp
          290          295          300

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Ala Asn Ser Leu Ala Pro Pro Gly Lys Ala Gly Gly Gly Ser Gly Pro
 305 310 315 320

Gln Pro Pro Pro Gly Leu Val Tyr Pro Cys Gly Ala Cys Arg Ser Glu
 325 330 335

Val Asn Asp Asp Gln Asp Ala Ile Leu Cys Glu Ala Ser Cys Gln Lys
 340 345 350

Trp Phe His Arg Glu Cys Thr Gly Met Thr Glu Ser Ala Tyr Gly Leu
 355 360 365

Leu Thr Thr Glu Ala Ser Ala Val Trp Ala Cys Asp Leu Cys Leu Lys
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Thr Lys Glu Ile Gln Ser Val Tyr Ile Arg Glu Gly Met Gly Gln Leu
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Val Ala Ala Asn Asp Gly
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 Gly Gly Asp Ser Gly Leu Asp Gly Leu Gly Gly Pro Gly Val Gln Leu
 20 25 30
 gga agc cca gat aag aaa aag cgc aag gca aat aca cag gga cct tct 144
 Gly Ser Pro Asp Lys Lys Lys Arg Lys Ala Asn Thr Gln Gly Pro Ser
 35 40 45
 ttc cct cca ttg tct gag tat gct cca cca ccg aat cca aac tct gac 192
 Phe Pro Pro Leu Ser Glu Tyr Ala Pro Pro Pro Asn Pro Asn Ser Asp
 50 55 60
 cat cta gtg gct gct aat cca ttt gat gac aac tat aat act att tcc 240
 His Leu Val Ala Ala Asn Pro Phe Asp Asp Asn Tyr Asn Thr Ile Ser
 65 70 75 80
 tat aaa cca cta cct tcg tca aat cca tat ctt ggc cct ggt tat cct 288
 Tyr Lys Pro Leu Pro Ser Ser Asn Pro Tyr Leu Gly Pro Gly Tyr Pro
 85 90 95

ggc ttt gga ggc tat agt aca ttc aga atg cca cct cac gtt ccc cca Gly Phe Gly Gly Tyr Ser Thr Phe Arg Met Pro Pro His Val Pro Pro 100 105 110	336
aga atg tct tcc cca tac tgt ggt cct tac tca ctc agg aac cag cca Arg Met Ser Ser Pro Tyr Cys Gly Pro Tyr Ser Leu Arg Asn Gln Pro 115 120 125	384
cac cca ttt cct cag aat cct ctg ggc atg ggt ttt aat cga cct cat His Pro Phe Pro Gln Asn Pro Leu Gly Met Gly Phe Asn Arg Pro His 130 135 140	432
gct ttt aac ttt ggg cca cat gat aat tca agt ttc ggt aat cca tct Ala Phe Asn Phe Gly Pro His Asp Asn Ser Ser Phe Gly Asn Pro Ser 145 150 155 160	480
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agc caa gtt tct aac ccc gat ttg gca tct aat ttt gtt cct gga aat Ser Gln Val Ser Asn Pro Asp Leu Ala Ser Asn Phe Val Pro Gly Asn 195 200 205	624
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Asp Gln Asp Ala Ile Leu Cys Glu Ala Ser Cys Gln Lys Trp Phe His	
355 360 365	
cgg atc tgt act gga atg act gaa aca gct tat ggc ctc tta act gca	1152
Arg Ile Cys Thr Gly Met Thr Glu Thr Ala Tyr Gly Leu Leu Thr Ala	
370 375 380	
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Glu Ala Ser Ala Val Trp Gly Cys Asp Thr Cys Met Ala Asp Lys Asp	
385 390 395 400	
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 Phe Pro Pro Leu Ser Glu Tyr Ala Pro Pro Pro Asn Pro Asn Ser Asp
 50 55 60
 His Leu Val Ala Ala Asn Pro Phe Asp Asp Asn Tyr Asn Thr Ile Ser
 65 70 75 80
 Tyr Lys Pro Leu Pro Ser Ser Asn Pro Tyr Leu Gly Pro Gly Tyr Pro
 85 90 95
 Gly Phe Gly Gly Tyr Ser Thr Phe Arg Met Pro Pro His Val Pro Pro
 100 105 110
 Arg Met Ser Ser Pro Tyr Cys Gly Pro Tyr Ser Leu Arg Asn Gln Pro
 115 120 125
 His Pro Phe Pro Gln Asn Pro Leu Gly Met Gly Phe Asn Arg Pro His
 130 135 140

Ala Phe Asn Phe Gly Pro His Asp Asn Ser Ser Phe Gly Asn Pro Ser
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 Tyr Asn Asn Ala Leu Ser Gln Asn Val Asn Met Pro Asn Gln His Phe
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 Arg Gln Asn Pro Ala Glu Asn Phe Ser Gln Ile Pro Pro Gln Asn Ala
 180 185 190
 Ser Gln Val Ser Asn Pro Asp Leu Ala Ser Asn Phe Val Pro Gly Asn
 195 200 205
 Asn Ser Asn Phe Thr Ser Pro Leu Glu Ser Asn His Ser Phe Ile Pro
 210 215 220
 Pro Pro Asn Thr Phe Gly Gln Ala Lys Ala Pro Pro Pro Lys Gln Asp
 225 230 235 240
 Phe Thr Gln Gly Ala Thr Lys Asn Thr Asn Gln Asn Ser Ser Ala His
 245 250 255
 Pro Pro His Leu Asn Met Asp Asp Thr Val Asn Gln Ser Asn Ile Glu
 260 265 270
 Leu Lys Asn Val Asn Arg Asn Asn Ala Val Asn Gln Glu Asn Ser Arg
 275 280 285
 Ser Ser Ser Thr Glu Ala Thr Asn Asn Asn Pro Ala Asn Gly Thr Gln
 290 295 300
 Asn Lys Pro Arg Gln Pro Arg Gly Ala Ala Asp Ala Cys Thr Thr Glu
 305 310 315 320
 Lys Ser Asn Lys Ser Ser Leu His Pro Asn Arg His Gly His Ser Ser
 325 330 335
 Ser Asp Pro Val Tyr Pro Cys Gly Ile Cys Thr Asn Glu Val Asn Asp
 340 345 350
 Asp Gln Asp Ala Ile Leu Cys Glu Ala Ser Cys Gln Lys Trp Phe His
 355 360 365
 Arg Ile Cys Thr Gly Met Thr Glu Thr Ala Tyr Gly Leu Leu Thr Ala
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Ser Asp Ala

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